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United States Department of Agriculture

ALLEGHENY FOREST EXPERIMENT STATION*

Technical Note No. 29
Forest Service

Philadelphia, Pa.
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VOLUME TABLE FOR BEECH (Fagus grandifolia Ehr.) 7.153

By G. Luther Schnur, Silviculturist

The volume table below was computed in connection with analyses of permanent sample plot records on the Kane Experimental Forest in northwestern Pennsylvania in 1936. It will be of value mainly to research workers interested in total wood volume.

BEECH - PENNSYLVANIA

(Fagus grandifolia Ehr.)

Entire stem - Less bark - Cubic feet

D.B.H.:	Total height - Feet							: Basis
o.b. :	10	20	30	40	50	60	70	:No. of
Inches:	Volume - Cubic Feet							: Trees
1	0.03	0.07	0.12					22
2	.09	.22	.36	0.52	0.66			29
3	.19	.45	.73	1.04	1.36	1.70		22
4	.33	.74	1.22	1.72	2.24	2.81		12
5		1.09	1.80	2.52	3.31	4.19	5.00	4
6		1.52	2.48	3.51	4.51	5.68	6.80	6
7		1.99	3.27	4.60	6.10	7.48	8.98	2
8			4.15	5.85	7.60	9.50	11.49	2
9			5.18	7.35	9.48	11.70	14.20	2
10			6.25	8.65	11.40	14.10	17.10	9
11				10.2	13.4	16.8	20.0	5
12				11.8	15.5	19.5	23.4	2
13				13.8	18.2	22.5	27.0	1
14				15.5	20.2	25.2	30.5	2
15				17.5	23.0	28.5	34.2	-
16				19.7	25.8	32.1	38.7	1
17				21.9	28.9	36.0	43.0	-
18				24.2	31.8	39.4	47.8	1
19				26.8	35.0	43.0	52.0	-
20				29.0	38.2	47.7	57.0	-
Basis	2	43	30	16	22	9	-	122

Basis - 122 Trees, measured in northwestern Pennsylvania. Aggregate deviation, table 3.5 per cent low; average percentage deviation 8.6. Stump 1.0 ft. high, measured as a cylinder, volume measured by planimeter; table read from alinement chart constructed from logarithmic multiple regression equation by H. V. Loose in 1936.

*In cooperation with the University of Pennsylvania.

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